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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 22.05.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.
REFERENCE	:	EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

Received AE
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 22.05.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Date of Testing : 22.05.2017

Material : Sand Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	131	8.73	8.73	91.3	90-100
2.36	146	9.73	18.47	81.5	75-100
1.18	159	10.60	29.07	70.9	55-90
600 Micron	305	20.33	49.40	50.6	35-59
300 Micron	425	28.33	77.73	22.3	8-30
150 Micron	293	19.53	97.27	2.7	0-10

Information is furnished by the Agency

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 22.05.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Date of Testing : 22.05.2017

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	203	1.35	1.35	98.65 -	95-100
20	8498	56.65	58.01	41.99	30-70
10	3598	23.99	81.99	18.01	10-35
4.75	2104	14.03	96.02	3.98	0-5

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 22.05.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Date of Testing : 22.05.2017

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	190	3.8	3.8	96.2	95-100
10	2891	57.8	61.6	38.4	25-55
4.75	1542	30.8	92.5	7.5	0-10

Information is furnished by the Agency

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 : 25.05.2017

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

*** Customer** :**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the Work** : Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Sample Received on : 23.05.2017

Date of Testing : 25.05.2017

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.2	258.5	3.23	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.8	261.2	3.27	
3	Block 3	33.2	264.3	3.30	
4	Block 4	34.4	265.8	3.32	
5	Block 5	35.1	264.8	3.31	
6	Block 6	33.8	263.5	3.29	
7	Block 7	35.1	262.8	3.29	
8	Block 8	36.5	263.4	3.29	

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 09.06.2017

PRE CAST SLAB 100mm(CORE) TEST REPORT

Client	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of Work	:	Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.
Reference		EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
No.of Sample Tested	:	03
Date of Testing	:	09.06.2017
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.382	2288.84	1.70	0.960	31.90	16.25	17.55	16.84	21.06
2	50.00	76.00	0.345	2311.93	1.52	0.960	32.50	16.55	17.88	17.16	21.45
3	50.00	71.00	0.312	2238.03	1.42	0.960	33.10	16.86	18.21	17.48	21.85

Assl. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 09.06.2017

PRE CAST SLAB 250mm(CORE) TEST REPORT

Client	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of Work	:	Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.
Reference		EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
No.of Sample Tested	:	03
Date of Testing	:	09.06.2017
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	130.00	2.385	2335.90	1.30	0.960	132.50	16.87	18.22	17.49	21.86
2	100.00	135.00	2.395	2258.82	1.35	0.960	133.80	17.04	18.40	17.66	22.08
3	100.00	140.00	2.489	2263.64	1.40	0.960	137.50	17.51	18.91	18.15	22.69

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 01.07.2017

TEST REPORT ON CONCRETE CUBES

Client :**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Received
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2017	01.07.2017	8.215	502.3	22.32
2	03.06.2017	01.07.2017	8.205	513.8	22.84
3	03.06.2017	01.07.2017	8.156	489.9	21.77

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 01.07.2017

TEST REPORT ON CONCRETE CUBES

Client :**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Construction of Compound wall to Primary Health Centre at Kodigehalli and other Development works in ward no.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2017	01.07.2017	8.198	495.6	22.03
2	03.06.2017	01.07.2017	8.221	521.4	23.17
3	03.06.2017	01.07.2017	8.174	538.7	23.94

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